

OIL ANALYSIS REPORT

**VOLVO
PENTA**

LICCLARDELLO DETROIT LICCLARDELLO (S/N N/A) - PORT DIESEL ENGINE

Sample No: VPA036639

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA036639	---	---	---
Sample Date	20 Feb 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

Richey Boat & Motor - 806884

13213 Us 19

HUDSON, FL

US 34667

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.27	---	---	---
Base Number (BN)	mg KOH/g	█ 51.5	---	---	---
Oxidation (PA)	%	▲ 147	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition. The copper level is abnormal. All other component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Water	%	▲ 1.48	---	---	---
Soot %	%	█ 0.7	---	---	---
Nitration (PA)	%	▲ 309	---	---	---
Sulfation (PA)	%	▲ 0	---	---	---
Glycol	%	▲ 0.10	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	▲ 111	---	---	---
Potassium	ppm	▲ 421	---	---	---

WEAR METALS

Iron	ppm	█ 59	---	---	---
Copper	ppm	▲ 51	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 11	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1051	---	---	---
Magnesium	ppm	█ 723	---	---	---
Zinc	ppm	█ 973	---	---	---
Phosphorus	ppm	726	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 118	---	---	---

Depot: VP155349

Unique No: 10937601

Signed: Jonathan Hester

Report Date: 27 Mar 2024

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GRAPHS

